

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

2080-3-23

DECLARATION and POWER OF ATTORNEY

☒ ORIGINAL
☐ CONTINUATION-IN-PART
☐ DIVISIONAL

As a below named inventor, I declare that the information given herein is true, that I believe that I am the original, first and sole inventor (if only one name is listed as 1 below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VSB TRANSMISSION SYSTEM FOR PROCESSING SUPPLEMENTAL TRANSMISSION DATA

the specification of which is attached hereto unless the following box is checked:

☐ was filed on _____ as United States Application Number or PCT International Application Number _____
and was amended on _____.

My residence, post office address and citizenship are as stated below next to my name.

I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations 1.56(a). I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

PRIOR FOREIGN APPLICATION(S)

COUNTRY	APPLICATION NUMBER	DATE OF FILING Month Day Year	PRIORITY CLAIMED UNDER 35 U.S.C. 119
Korea	2000-83533	December 28, 2000	Yes

I hereby claim the benefit under Title 35, United States Code, 20 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.) (Filing Date) (Status)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or Agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

ONATHAN Y. KANG, REG. NO. 38,199; RICHARD K. YOON, REG. NO. 42,247; EDWARD GRAY, REG. NO. 35,166; DAVID N. MAKOUS, REG. NO. 29,559; JOHN S. CHRISTOPHER, REG. NO. 30,937

Send correspondence to: Jonathan Y. Kang, Esq.
Lee & Hong P.C.
221 N. Figueroa Street,
11th Floor
Los Angeles, CA 90012-2601

DIRECT TELEPHONE CALLS TO: Jonathan Y. Kang 213-250-7780

(Please Print)

1	Name of Inventor In Hwan CHOI	Residence: CITY Seoul	STATE or COUNTRY Republic of Korea
	Post Office Address 173-16 Shihung 4-dong, Kumchon-gu, Seoul, Korea	CITIZENSHIP	
2	Name of Inventor Young Mo GU	Residence: CITY Seoul	STATE or COUNTRY Republic of Korea
	Post Office Address Hyundai APT., 107-1105, Dansan 2ga-dong, Youngdungpo-gu, Seoul, Korea	CITIZENSHIP	
3	Name of Inventor Kyung Won KANG	Residence: CITY Seoul	STATE or COUNTRY Republic of Korea
	Post Office Address 101, 4-70, Changchon-dong, Sodaemun-gu, Seoul, Korea	CITIZENSHIP	
4	Name of Inventor Kook Yeon KWAK	Residence: CITY Kyonggi-do	STATE or COUNTRY Republic of Korea
	Post Office Address Mokreonshindonga APT., 901-503, Hogue 2-dong, Tongan-gu, Anyang-shi, Kyonggi-do, Korea	CITIZENSHIP	

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 1	<i>[Signature]</i>	SIGNATURE OF INVENTOR 2	
DATE	2001. 8. 8	DATE	
SIGNATURE OF INVENTOR 3	<i>[Signature]</i>	SIGNATURE OF INVENTOR 4	
DATE	2001. 8. 8	DATE	2001. 8. 8 <i>[Signature]</i>

DECLARATION and POWER OF ATTORNEY

☒ ORIGINAL
☐ CONTINUATION-IN-PART
☐ DIVISIONAL

As a below named inventor, I declare that the information given herein is true, that I believe that I am the original, first and sole inventor (if only one name is listed as 1 below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VSB TRANSMISSION SYSTEM FOR PROCESSING SUPPLEMENTAL TRANSMISSION DATA

the specification of which is attached hereto unless the following box is checked:

☐ was filed on _____ as United States Application Number or PCT International Application Number _____ and was amended on _____.

My residence, post office address and citizenship are as stated below next to my name.

I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations 1.56(a).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

PRIOR FOREIGN APPLICATION(S)

COUNTRY	APPLICATION NUMBER	DATE OF FILING Month Day Year	PRIORITY CLAIMED UNDER 35 U.S.C. 119
Korea	2000-83533	December 28, 2000	Yes

I hereby claim the benefit under Title 35, United States Code, 20 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, 1.68(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.) (Filing Date) (Status)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or Agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

DNATHAN Y. KANG, REG. NO. 38,199; RICHARD K. YOON, REG. NO. 42,247; EDWARD GRAY, REG. NO. 35,166; DAVID N. MAKOUS, REG. NO. 29,559; JOHN S. CHRISTOPHER, REG. NO. 30,837

Send correspondence to: Jonathan Y. Kang, Esq.
Lee & Hong P.C.
221 N. Figueroa Street,
11th Floor
Los Angeles, CA 90012-2601

DIRECT TELEPHONE CALLS TO: Jonathan Y. Kang 213-250-7760

(Please Print)

1	Name of Inventor In Hwan CHOI	Residence: CITY Seoul	STATE or COUNTRY Republic of Korea
	Post Office Address 173-16 Shihung 4-dong, Kumchon-gu, Seoul, Korea	CITIZENSHIP	
2	Name of Inventor Young Mo GU	Residence: CITY Seoul	STATE or COUNTRY Republic of Korea
	Post Office Address Hyundai APT., 107-1105, Dongsan 2ga-dong, Youngdungpo-gu, Seoul,	CITIZENSHIP	
3	Name of Inventor Kyung Won KANG	Residence: CITY Seoul	STATE or COUNTRY Republic of Korea
	Post Office Address 101, 4-70, Changchon-dong, Sodaemun-gu, Seoul, Korea	CITIZENSHIP	
4	Name of Inventor Kook Yeon KWAK	Residence: CITY Kyonggi-do	STATE or COUNTRY Republic of Korea
	Post Office Address Mokreonshindonga APT., 901-503, Hoggae 2-dong, Tongan-gu, Anyang-shi, Kyonggi-do, Korea	CITIZENSHIP	

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 1	SIGNATURE OF INVENTOR 2 <i>[Signature]</i>
DATE	DATE <i>August 8, 2001</i>
SIGNATURE OF INVENTOR 3	SIGNATURE OF INVENTOR 4
DATE	DATE

Customer No. 035884

Attorney Docket: 2080-3023C1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re continuation application of:

In Hwan Choi, et al.

Serial No: Unassigned

Filed: Unassigned

For: VSB TRANSMISSION SYSTEM FOR PROCESSING
SUPPLEMENTAL DATA

Parent Serial No: 09/933,280

Parent Filed: August 20, 2001

Prior Art Unit: 2614

Prior Examiner: Unknown

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

ASSOCIATE POWER OF ATTORNEY (37 C.F.R. 1.34)

Dear Sir:

Please recognize as Associate Attorneys in this case:

F. JASON FAR-HADIAN, Reg. No. 42,523;

AMIT SHETH, Reg. No. 50,176; and

RICHARD SALFELDER, Reg. No. 51,127

With full power of association, substitution and revocation, to prosecute the above-identified application and transact all business in the Patent Office connection therewith.

All correspondence should be sent to the undersigned.

Respectfully submitted,

Date: March 2, 2004

By: 

Jonathan Y. Kang
Registration No. 38,199

Customer No. 035884

Lee, Hong, Degerman, Kang & Schmadeka
801 S. Figueroa Street, 14th Floor
Los Angeles, California 90017
Telephone: (213) 623-2221
Facsimile: (213) 623-2211

2080-3-23

ASSIGNMENT

Insert Name(s) of Inventor(s)

In Hwan CHOI
Kyung Won KANGYoung Mo GU
Kook Yeon KWAK

Insert name of Assignee

Insert state of Incorporation of
Assignee

Insert address of Assignee

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

LG Electronics Inc.

Republic of Korea

of

20, Yoido-dong, Youngdungpo-gu, Seoul, Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

Insert identification of Invention, such
as Title, Case Number or Foreign
Application Number

VSB TRANSMISSION SYSTEM FOR PROCESSING SUPPLEMENTAL
TRANSMISSION DATA

for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

Insert Date of Signing of Application

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

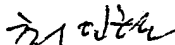
4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.
The undersigned hereby appoints JONATHAN Y. KANG, REG. NO. 38,199; RICHARD K. YOON, REG. NO. 42,247; EDWARD GRAY, REG. NO. 35,166; DAVID N. MAKOUS, REG. NO. 29,559; JOHN S. CHRISTOPHER, REG. NO. 30,937

the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 2001. 8. 8

Signature of Inventor

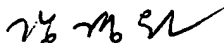


Date:

Signature of Inventor

Date: 2001. 8. 8

Signature of Inventor



Date: 2001. 8. 8

Signature of Inventor



ASSIGNMENT

Insert Name(s) of Inventor(s)

In Hwan CHOI
Kyung Won KANG

Young Mo GU
Kook Yeon KWAK

Insert name of Assignee

Insert state of Incorporation of
Assignee

Insert address of Assignee

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

LG Electronics Inc.
-Republic of Korea

of

20, Yoldo-dong, Youngdungpo-gu, Seoul, Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

Insert Identification of Invention, such
as Title, Case Number or Foreign
Application Number

**USB TRANSMISSION SYSTEM FOR PROCESSING SUPPLEMENTAL
TRANSMISSION DATA**

for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

Insert Date of Signing of Application

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.
The undersigned hereby appoints JONATHAN Y. KANG, REG. NO. 38,199; RICHARD K. YOON, REG. NO. 42,247; EDWARD GRAY, REG. NO. 35,166; DAVID N. MAKOUS, REG. NO. 29,559; JOHN S. CHRISTOPHER, REG. NO. 30,937

the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: Signature of Inventor

Date: August 8, 2001 Signature of Inventor

Date: Signature of Inventor

Date: Signature of Inventor